

# PROJECT DESCRIPTION

## GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE NEW TRAFFIC CONTROL SIGNAL FOR THIS PHASE OF THE MAINTENANCE OF TRAFFIC AT MD 450 (ANNAPOLIS ROAD) AND AND FORBES BLVD. IN PRINCE GEORGES COUNTY. MD 450 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

## INTERSECTION OPERATION

THIS INTERSECTION IS TO BE MODIFIED TO OPERATE IN A NEMA FOUR PHASE, FULLY-TRAFFIC-ACTUATED MODE. THE THROUGH MOVEMENTS ON MD 450 WILL OPERATE CONCURRENTLY. THE THROUGH MOVEMENTS ON FORBES BLVD. WILL OPERATE CONCURRENTLY.

## CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER AND CABINET ARE TO BE UTILIZED.

## SPECIAL NOTE

72 HOURS PRIOR TO ANY WORK ON THE TRAFFIC SIGNALS, THE CONTRACTOR SHALL NOTIFY THE DISTRICT 3 TRAFFIC SECTION REPRESENTATIVE, MR. RICHARD BUETTNER (301-513-7316) AND THE SIGNAL OPERATIONS SUPERVISOR, MR. EDWARD RODENHIZER (410-787-7652).

ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UNDERGROUND AND OVERHEAD UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.

# EQUIPMENT LIST "A"

## A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

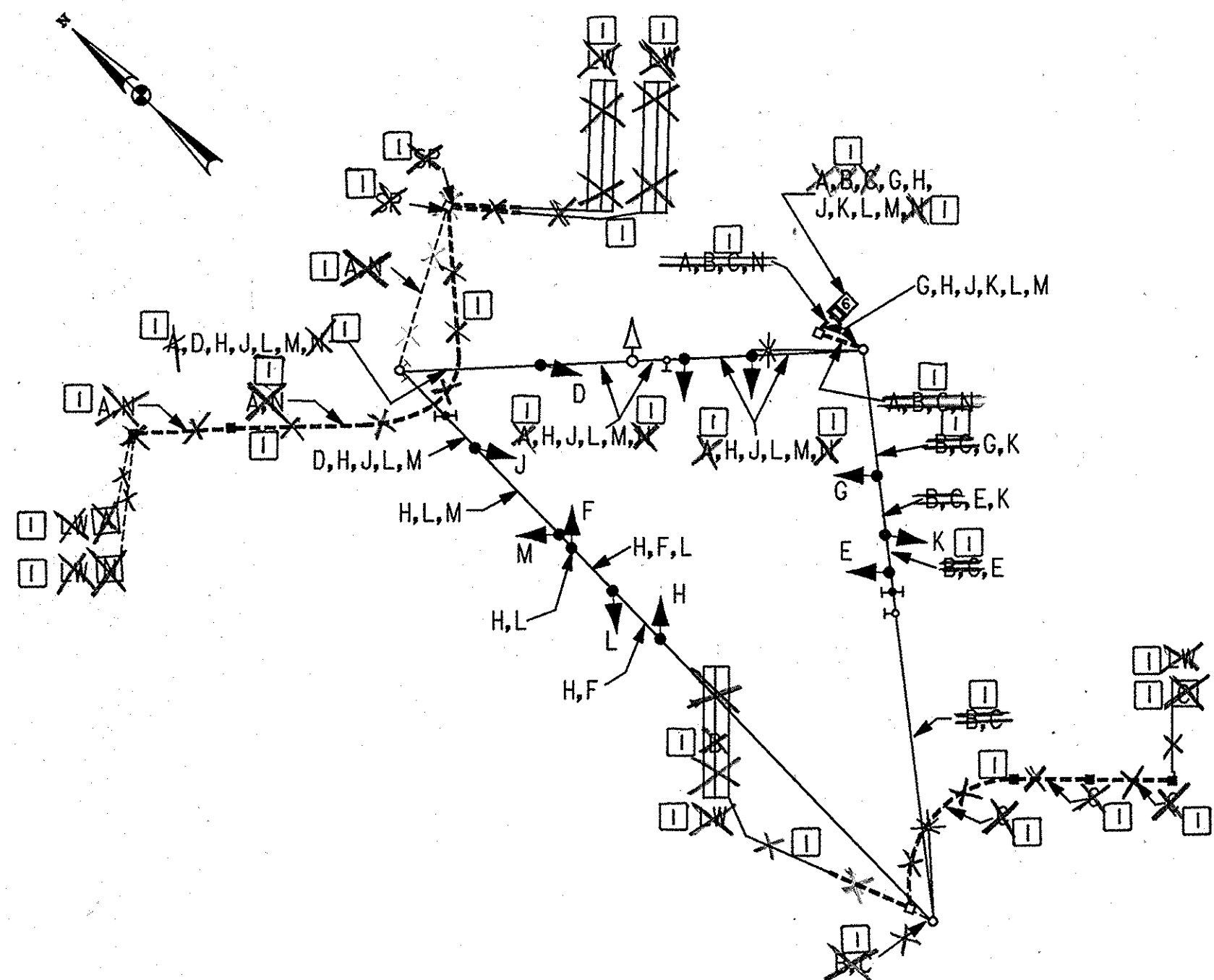
CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
960015	814	7 EA.	12 IN. 1 WAY 3 SECTION (R,Y,G) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS

# EQUIPMENT LIST "B"

## B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
114245	104	87 L.F.	24 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
<del>1 8050H</del>	<del>805</del>	<del>30 L.F.</del>	<del>FURNISH AND INSTALL 1 IN. ELECTRICAL CONDUIT GALVANIZED SLEEVE</del>
<del>1 805125</del>	<del>805</del>	<del>705 L.F.</del>	<del>FURNISH AND INSTALL 2 IN. SCHEDULE 40 RIGID PVC CONDUIT TRENCHED</del>
<del>1 805160</del>	<del>805</del>	<del>32 L.F.</del>	<del>FURNISH AND INSTALL 1 IN. LIQUID TIGHT NON-METALLIC CONDUIT FOR DETECTOR SLEEVE</del>
<del>1 8H001</del>	<del>8H</del>	<del>5 EA.</del>	<del>FURNISH AND INSTALL ELECTRICAL HANDHOLE</del>
860015	814	7 EA.	INSTALL 12 IN. 1 WAY 3 SECTION (R,Y,G) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
860265	814	4 EA.	RELOCATE EXISTING SIGNAL HEAD
<del>1 861104</del>	<del>810</del>	<del>2050 L.F.</del>	<del>FURNISH AND INSTALL ELECTRICAL CABLE 2 CONDUCTOR (ALUMINUM-SHIELDED)</del>
861107	810	138 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
861108	810	1157 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
<del>1 862101</del>	<del>810</del>	<del>1670 L.F.</del>	<del>FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)</del>
<del>1 862102</del>	<del>815</del>	<del>530 EA.</del>	<del>FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)</del>
800000	813	2 EA.	RELOCATE EXISTING OVERHEAD SIGN
800000	XXX	LUMP SUM	REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

# WIRING DIAGRAM



- ~~1~~ ~~2-CONDUCTOR CABLE (ALUMINUM-SHIELDED)~~
- ~~1~~ ~~5-CONDUCTOR CABLE (NO. 14 A.W.G.)~~
- ~~1~~ ~~7-CONDUCTOR CABLE (NO. 14 A.W.G.)~~
- ~~1~~ ~~SP - SPLICE EXISTING ALUMINUM-SHIELDED CABLE TO NEW LOOP WIRE~~
- ~~1~~ ~~1W - LOOP WIRE (NO. 14 A.W.G.) IN FLEXIBLE TUBING~~

# PHASE DIAGRAM

	1	2	3	4	5	6	7	8	9	10	11	12	
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	R	R	→
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	→
PHASE 4 + 8	R	R	R	R	R	R	G	G	G	G	G	G	↑
4 + 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	↑
FLASHING OPERATION	F	F	F	F	F	F	F	F	F	F	F	F	↔

RED LINE REV. NO. 1  
7-14-97

TEMPORARY SIGNAL  
PHASE II

DWG. NO.  
TS-2B



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 450 (ANNAPOLIS ROAD) AT FORBES BLVD.

LOG MILE NO. 16045006.59 DATE 5/20/96

DRAWN BY: S. BLOSS  
CHECK BY: T. HANNAN

F.A.P. NO. N/A  
S.H.A. NO. N/A  
COUNTY PRINCE GEORGES

PLAN SHEET NO.: TS-3600A-X2-G1  
SHEET NO. 348 OF 465

## REVISIONS

## APPROVALS

ASST. DIVISION CHIEF, TEDD

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

THE WILSON T. BALLARD CO.  
CONSULTING ENGINEERS  
OWINGS MILLS, MARYLAND

AUGUST 1996 - WTB  
MODIFY EXISTING SIGNAL  
SHA NO. PG9005171

JDM